**ROUTER CONTROL:-**

#include <ESP8266WiFi.h>

const char\* ssid = "smartagroids";

const char\* password = "12345678";

WiFiServer server(80);

String data;

void setup() {

Serial.begin(115200);

// Connect to WiFi network

Serial.println();

Serial.println();

Serial.print("Connecting to ");

Serial.println(ssid);

WiFi.begin(ssid, password);

while (WiFi.status() != WL\_CONNECTED) {

delay(500);

Serial.print(".");

}

Serial.println("");

Serial.println("WiFi connected");

// Start the server

server.begin();

Serial.println("Server started");

// Print the IP address

Serial.println(WiFi.localIP());

}

void loop() {

WiFiClient client = server.available();

//data ="moisture="+String(moisture)+ "&pir=" + String(pir)+ "&temp=" + String(temp)+ "&hum=" + String(hum)+ "&ph=" + String(ph);

if (client.connect("www.smartagroids-iot.science",80))

{

// REPLACE WITH YOUR SERVER ADDRESS

client.println("POST /add.php HTTP/1.1");

client.println("Host:www.smartagroids-iot.science"); // SERVER ADDRESS HERE TOO

client.println("Content-Type: application/x-www-form-urlencoded");

client.print("Content-Length: ");

if(Serial.available() >0)

{

data=Serial.readString();

}

client.println(data.length());

client.println();

client.print(data);

Serial.println(data);

}

if (client.connected()) {

client.stop(); // DISCONNECT FROM THE SERVER

}

delay(20000); // WAIT 30 seconds BEFORE SENDING AGAIN

}

**SENSORS CO-ORDINATION:-**

#include <dht.h>

dht DHT;

#define DHT11\_PIN 8

static int moistpin = 12;//Digital input

static int pirpin =11;//Digital input

//int motor = 13;

int Soilmoisture(void);

float Phsensor (void);

int PIRsensor(void);

void setup()

{

Serial.begin(115200);

pinMode(moistpin,INPUT\_PULLUP);

pinMode(pirpin,INPUT\_PULLUP);

pinMode(motor,OUTPUT);

}

void loop()

{

int moi = Soilmoisture();

int pir = PIRsensor();

int chk = DHT.read11(DHT11\_PIN);

int temp= DHT.temperature;

int hum = DHT.humidity;

float ph = Phsensor();

//delay(2000);

String data ="moisture="+String(moi)+ "&pir=" + String(pir)+ "&temp=" + String(temp)+ "&hum=" + String(hum)+ "&ph=" + String(ph);

Serial.println(data);

}

float Phsensor (void)

{

float ph=analogRead(A0);

ph=(ph\*5)/1024;

return(ph);

}

int Soilmoisture(void)

{

int moisture=digitalRead(moistpin);

return(moisture);

}

int PIRsensor(void)

{

int pir=digitalRead(pirpin);

return(pir);

}